

Amendments to the Claims:

The following listing of claims replaces all prior versions and listings of claims, in the application.

Listing of Claims

Claims 1-28 (Canceled)

29. (Currently amended) A method of endoscopic imaging comprising:
- providing a sensor array on a distal end of an endoscope, a filter on the distal end of the endoscope the endoscope having a fiber optic cable extending from a proximal end of the endoscope to the distal end, the proximal end of the fiber optic cable being optically coupled to a laser radiation source or a broadband light source;
 - positioning the distal end of the endoscope adjacent to tissue to be examined;
 - irradiating a region of interest on the tissue with radiation from the laser radiation source or the broadband light source that is delivered through the fiber optic cable;
 - sensing endogenous fluorescence or Raman scattered light returning to the distal end of the endoscope with the filtered sensor array in response to the irradiation of the region of interest with the radiation, the returning light being directed onto the sensor array at the distal end of the endoscope with a lens;
 - generating an electronic representation of the region of interest with the sensor array; and
 - storing the representation in a computer electronic memory.
30. (Previously Presented) The method of Claim 29 further comprising: providing a laser radiation source and optically coupling the laser radiation source to the proximal end of the fiber optic cable.

31. (Previously Presented) The method of Claim 29 further comprising providing an acousto-optic filter that is coupled to a focal plane array sensor.
32. (Previously Presented) The method of Claim 29 wherein the positioning step comprises inserting the distal end into a body lumen.
33. (Previously Presented) The method of Claim 29 further comprising forming an image of the region of interest.
34. (Previously Presented) The method of Claim 29 further comprising sensing radiation having a wavelength in the range of 1-2 microns.
35. (Canceled)
36. (Previously Presented) The method of Claim 29 further comprising determining concentrations of a plurality of tissue components.
37. (Previously Presented) The method of Claim 29 wherein the step of providing a filter further comprises providing a tunable filter.
38. (Previously Presented) The method of Claim 29 further comprising determining weight percentages of components of the tissue from the stored electronic representation.